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QUESTION 1

A developer is creating an AWS Lambda function that consumes messages from an Amazon Simple Queue Service (Amazon SQS) standard queue. The developer notices that the Lambda function processes some messages multiple times.

How should developer resolve this issue MOST cost-effectively?

A. Change the Amazon SQS standard queue to an Amazon SQS FIFO queue by using the Amazon SQS message deduplication ID.

B. Set up a dead-letter queue.

C. Set the maximum concurrency limit of the AWS Lambda function to 1

D. Change the message processing to use Amazon Kinesis Data Streams instead of Amazon SQS.

Correct Answer: A

Amazon Simple Queue Service (Amazon SQS) is a fully managed queue service that allows you to de-couple and scale for applications1. Amazon SQS offers two types of queues: Standard and FIFO (First In First Out) queues1. The FIFO queue uses the messageDeduplicationId property to treat messages with the same value as duplicate2. Therefore, changing the Amazon SQS standard queue to an Amazon SQS FIFO queue using the Amazon SQS message deduplication ID can help resolve the issue of the Lambda function processing some messages multiple times. Therefore, option A is correct.

QUESTION 2

An ecommerce application is running behind an Application Load Balancer. A developer observes some unexpected load on the application during non-peak hours. The developer wants to analyze patterns for the client IP addresses that use the application.

Which HTTP header should the developer use for this analysis?

A. The X-Forwarded-Proto header

B. The X-Forwarded-Host header

C. The X-Forwarded-For header

D. The X-Forwarded-Port header

Correct Answer: C

QUESTION 3

A developer is creating an AWS CloudFormation stack. The stack contains IAM resources with custom names. When the developer tries to deploy the stack, they receive an InsufficientCapabilities error.

What should the developer do to resolve this issue?

A. Specify the CAPABILITY_AUTO_EXPAND capability in the CloudFormation stack.

B. Use an administrators role to deploy IAM resources with CloudFormation.

C. Specify the CAPABILITY_IAM capability in the CloudFormation stack.

D. Specify the CAPABILITY_NAMED_IAM capability in the CloudFormation stack.

Correct Answer: D

QUESTION 4

A developer is writing an application to encrypt files outside of AWS before uploading the files to an Amazon S3 bucket. The encryption must be symmetric and must be performed inside the application.

How can the developer implement the encryption in the application to meet these requirements?

A. Create a data key in AWS Key Management Service (AWS KMS). Use the AWS Encryption SDK to encrypt the files.

B. Create a Hash-Based Message Authentication Code (HMAC) key in AWS Key Management Service (AWS KMS). Use the AWS Encryption SDK to encrypt the files.

C. Create a data key pair in AWS Key Management Service (AWS KMS). Use the AWS CLI to encrypt the files.

D. Create a data key in AWS Key Management Service (AWS KMS). Use the AWS CLI to encrypt the files.

Correct Answer: A

QUESTION 5

A company has an Amazon S3 bucket that contains sensitive data. The data must be encrypted in transit and at rest. The company encrypts the data in the S3 bucket by using an AWS Key Management Service (AWS KMS) key. A developer needs to grant several other AWS accounts the permission to use the S3 GetObject operation to retrieve the data from the S3 bucket.

How can the developer enforce that all requests to retrieve the data provide encryption in transit?

A. Define a resource-based policy on the S3 bucket to deny access when a request meets the condition "aws:SecureTransport": "false".

B. Define a resource-based policy on the S3 bucket to allow access when a request meets the condition "aws:SecureTransport": "false".

C. Define a role-based policy on the other accounts\\' roles to deny access when a request meets the condition of "aws:SecureTransport": "false".

D. Define a resource-based policy on the KMS key to deny access when a request meets the condition of "aws:SecureTransport": "false".

Correct Answer: A